

# LEXAN™ CTGXT SHEET

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN™ CTGXT is a two sided hard coated polycarbonate sheet offering high heat resistance, excellent dimensional stability and impact performance combined with superior optical properties for see-through applications. The clarity, ease at die cutting and formability of LEXAN CTGXT makes it an excellent candidate for applications like: motor helmet visors, industrial visors and goggles, sport goggles, police helmet visors and sunglasses.

### TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
<b>PHYSICAL</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.20
Water absorption, 50% RH, 23 °C	ISO 62	%	0.15
Water absorption, saturation, 23°C	ISO 62	%	0.35
<b>MECHANICAL</b>			
Yield stress 50 mm/min	ISO 527	MPa	>60
Yield strain 50 mm/min	ISO 527	%	6
Nominal strain at break 50 mm/min	ISO 527	%	>100
Tensile modulus 1 mm/min	ISO 527	MPa	2300
Flexural strength 2 mm/min	ISO 178	MPa	90
Flexural modulus 2 mm/min	ISO 178	MPa	2300
Taber haze - 100 cycles, 500 gram, CS-10F	ASTM D1044	%	4 - 8
<b>THERMAL</b>			
Vicat softening temperature, rate B/120	ISO 306	°C	145
Temperature of deflection under load (type A), 1.8 MPa, flat	ISO 75-2	°C	127
Thermal conductivity	ISO 8302	W/m.°C	0.2
Coefficient of linear thermal expansion, 23-55°C	ISO 11359-2	1/°C	7x10 <sup>-5</sup>
Ball pressure test 125 ±2°C	IEC 60695-10-2	-	Pass
<b>ELECTRICAL</b>			
Volume resistivity	IEC 60093	Ohm.cm	>10 <sup>15</sup>
Dielectric strength, in oil, 3.2 mm	IEC 60243-1	kV/mm	18
<b>OPTICAL</b>			
Light transmission 0.75 mm	ASTM D1003	%	92
Light transmission 1 mm	ASTM D1003	%	91
Light transmission 2 mm	ASTM D1003	%	91

◆ Some of the property values have been derived from LEXAN™ resin data for the material used to produce this sheet product.  
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## CHEMICAL RESISTANCE

LEXAN™ CTGXT sheet has sufficient resistance to most moderate chemicals. In applications where it will come into contact with aggressive chemicals, specific (application related) testing of the material is strongly recommended.

## PRODUCT AVAILABILITY

TEXTURE	GAUGES (MM)	COLOR
polished/polished	0.75	112
polished/polished	1.00	112
polished/polished	1.50	112
polished/polished	2.00	112

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